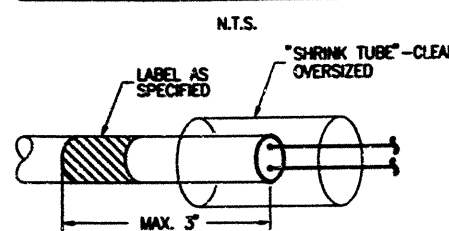


TYPICAL CABLE LABELING METHOD

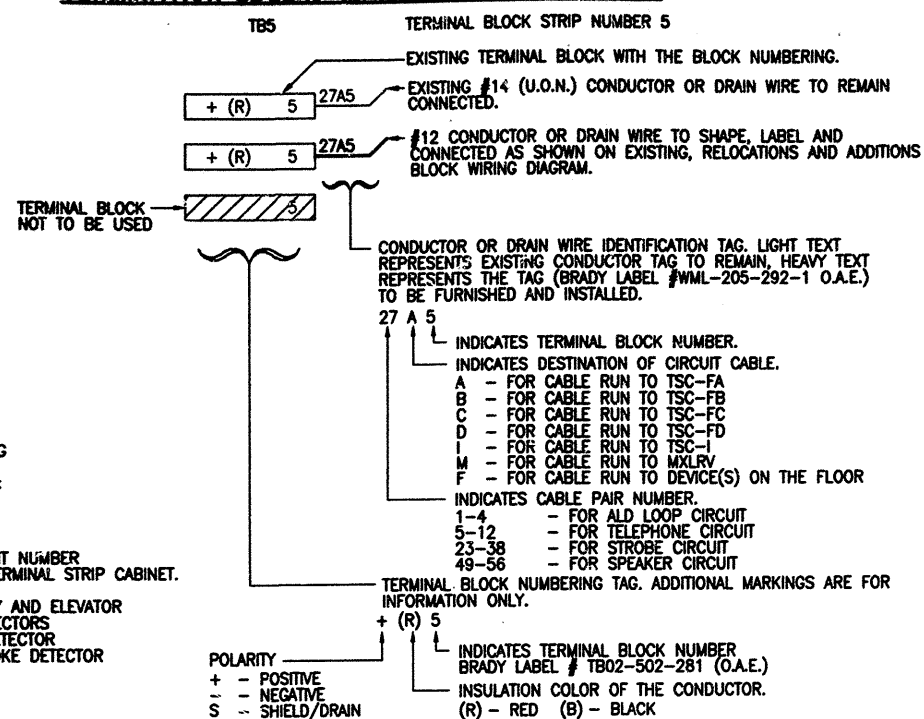


- APPLY LABEL TO OUTER JACKET OF CABLE MAXIMUM OF 3" FROM STRIPPED END AS SHOWN NOT TO BE COVERED BY OVERSIZED SHRINK TUBE. DETAIL APPLIES TO ALL CABLE TYPES

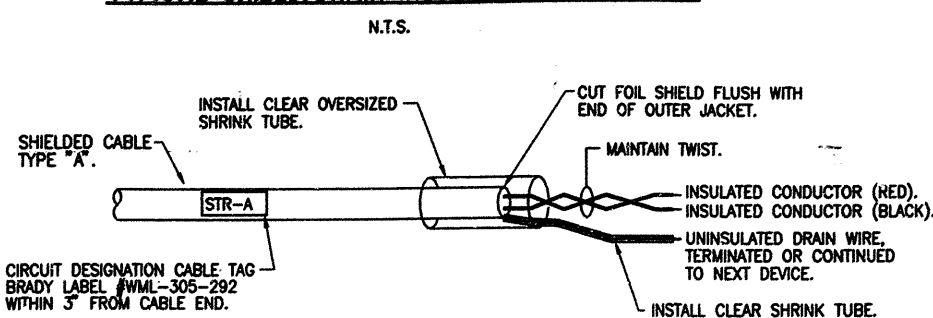
CIRCUIT LEGEND:

CIRCUIT DESIGNATION	CIRCUIT NUMBER OR NAME
STR-A	CABLE IDENTIFICATION TAG; LIGHT TEXT REPRESENTS EXISTING CABLE TAG TO REMAIN, HEAVY TEXT REPRESENTS THE TAG (BRADY LABEL #WML-305-292 O.A.E.) TO BE FURNISHED & INSTALLED.
STR	- STROBE CIRCUIT
SPK	- SPEAKER CIRCUIT
ALD	- ALD LOOP DEVICE CIRCUIT (EXCEPT SMOKE DETECTOR)
TEL	- TELEPHONE CIRCUIT
SD	- SMOKE DETECTOR CIRCUIT
MPJ	- MAINTENANCE PHONE JACK CIRCUIT
WP	- WARDEN TELEPHONE CIRCUIT
SJ	- STAND PIPE PHONE JACK CIRCUIT
A TO G	- STROBE OR SPEAKER CIRCUIT NUMBER
ATC	- CIRCUIT TO ADDRESSABLE TERMINAL STRIP CABINET.
PS	- CIRCUIT TO PULL STATIONS
ELEV	- CIRCUIT TO ELEVATOR LOBBY AND ELEVATOR MACHINE ROOM SMOKE DETECTORS
HVAC AREA	- CIRCUIT TO HVAC SMOKE DETECTOR
K	- CIRCUIT TO OPEN AREA SMOKE DETECTOR
IB	- INTERFACE CABINET CIRCUIT
TIB	- TENANT INTERFACE BOX

TERMINATION LEGEND (EXISTING AND ADDITIONS)



TYPICAL SHIELD/DRAIN INSULATING METHOD "A"



NOTES:

1. FOR LEGEND, ABBREVIATIONS & GENERAL NOTES, SEE DWG E-1.
2. ALL SHIELDS MUST BE ISOLATED FROM GROUND. APPROVED "SHRINK" TUBING SHALL BE USED ON ALL DRAIN CONDUCTORS. SEE TYPICAL SHIELD/DRAIN INSULATING METHOD "A" ON THIS DWG.
3. ALL WIRING SHALL BE FREE OF GROUND FAULTS, OPENS, SHORTS & STRAY VOLTAGES.
4. ALL WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.

Sheet 20 of 84

THE PORT AUTHORITY
OF NEW YORK AND NEW JERSEY

ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
CHIEF ELECTRICAL ENGINEER

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-861.573 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 11/1/99 CONTRACT ENGINEER ARCH.
DATE 11/1/99 ENGINEERING PROGRAM MGR

No. Date Revision Approved

ENGINEERING DEPARTMENT

WORLD
TRADE
CENTER

ELECTRICAL

Title
FIRE ALARM SYSTEM
DEVICE UPGRADE
PHASE III
5 WTC 3rd, 4th, 5th & 6th FLOORS

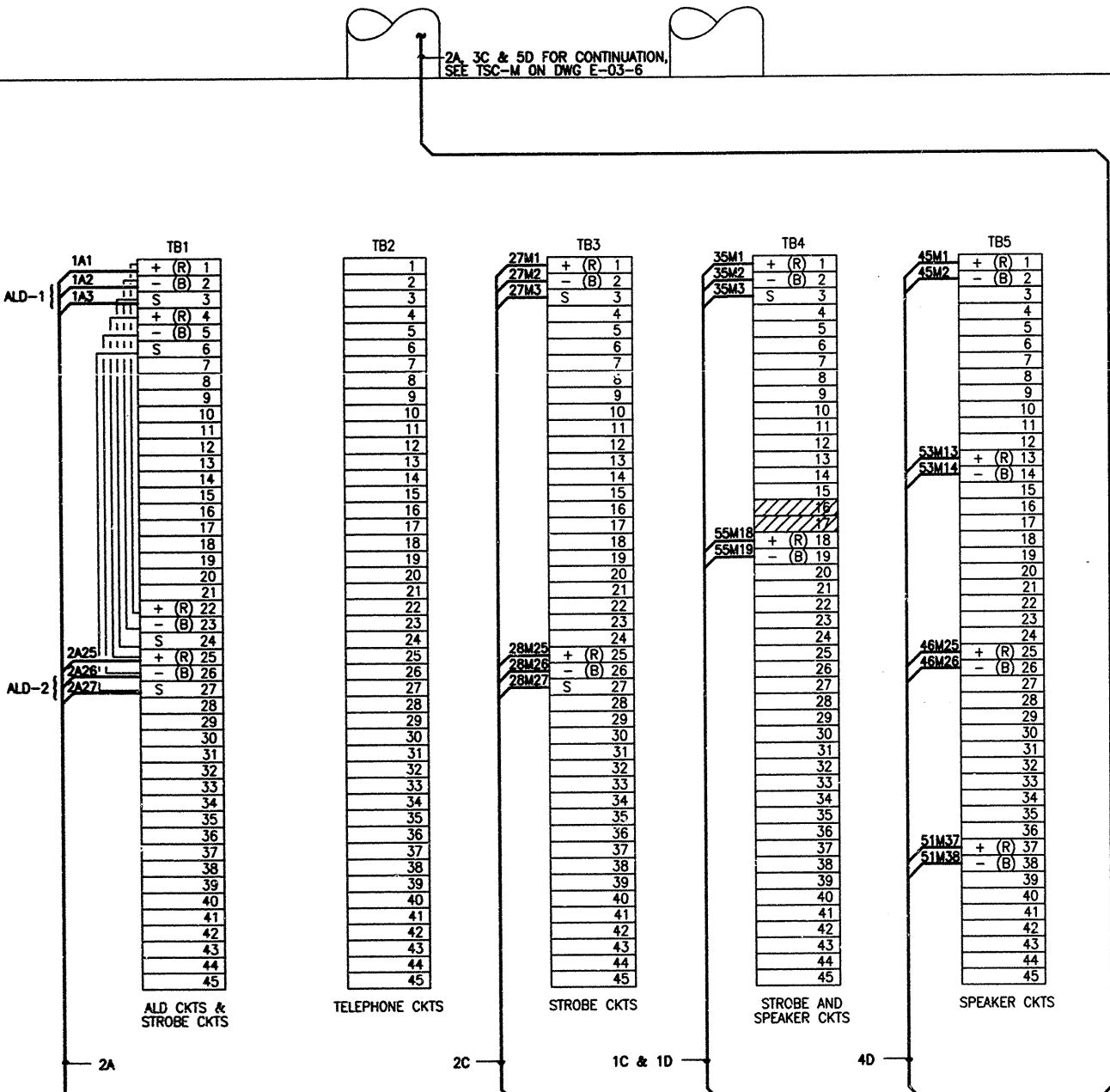
3rd FLOOR TSC-FA
BLOCK WIRING DIAGRAM
EXISTING AND ADDITIONS

This drawing subject to conditions in Contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

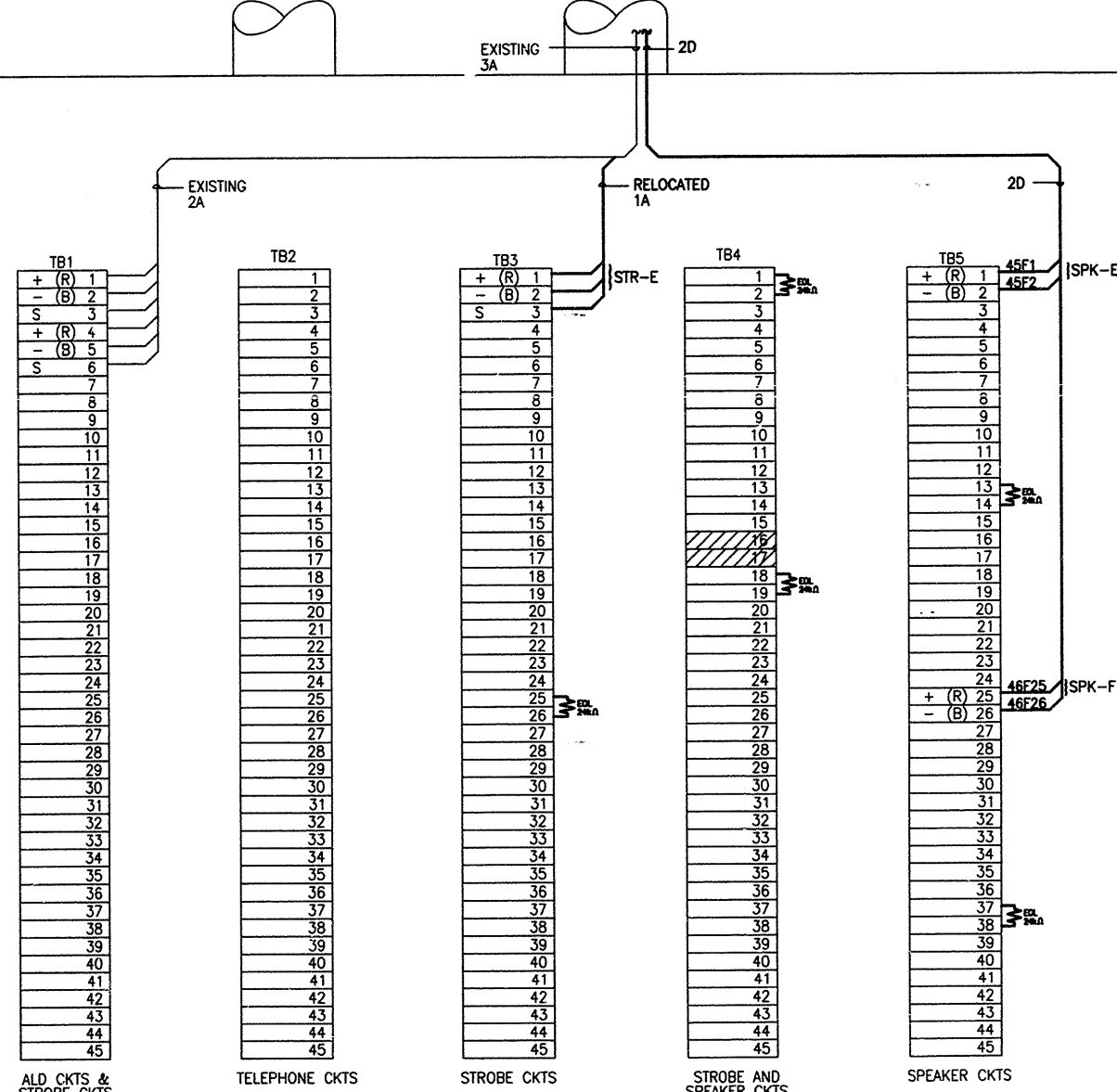
S. FELDSTEIN N. PALACIOS A.S.
Designed by Drawn by Checked by

NOVEMBER 26, 1999
Date

WTC-861.573 E-03-8
Contract Number Drawing Number



TSC-F-SYSTEM WIRING EXISTING AND ADDITIONS



TSC-F-FIELD WIRING EXISTING AND ADDITIONS